

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A light source ~~unit comprising:~~ unit, comprising:

~~an arc tube having a light emitting section in which~~ section, electrodes and ~~sealed sections provided on both sides of the light emitting section,~~ discharging emission is ~~being performed between the electrodes and sealed sections provided on both sides of the~~ light emitting section;

~~an oval elliptic reflector having a reflecting surface of a substantially oval~~ elliptical shape for emitting to emit a luminous flux radiated from the arc tube in a certain direction; ;

~~a collimator lens for parallelizing to make parallel~~ convergent rays light from the ~~oval elliptic~~ reflector;

~~a lamp housing for setting the to set a direction of an optical axis of the oval~~ elliptic reflector, the lamp housing including a lens positioning member in which the collimator lens is fixed,

~~wherein~~ the collimator lens is being positioned and fixed to the lamp housing by the lens positioning member in a state in which the optical axis of the oval elliptic reflector and an optical axis of the collimator lens are aligned.

2. (Currently Amended) ~~A~~The light source unit according to claim 1, ~~wherein~~ the lens positioning member ~~is being~~ formed integrally with the lamp housing.

3. (Currently Amended) ~~A~~The light source unit according to claim 1, ~~wherein~~ the collimator lens ~~is being~~ fixed to the lens positioning member by thermal caulking.

4. (Currently Amended) ~~A~~The light source unit according to claim 1, ~~wherein~~ the collimator lens ~~is being~~ fixed to the positioning member with an adhesive agent.

5. (Currently Amended) ~~A~~The light source unit according to claim 4, ~~wherein~~ the collimator lens ~~is-being~~ formed with a flange on ~~the~~an outer periphery thereof.

6. (Currently Amended) ~~A~~The light source unit according to claim 4, ~~wherein~~ an entire outer peripheral surface of the collimator lens ~~is-being~~ adhered and fixed to the lens positioning member.

7. (Currently Amended) ~~A~~The light source unit according to claim 5, ~~wherein~~ an angle of ~~the~~an extremity of the flange formed around the outer periphery of the collimator lens ~~is-being~~ an acute angle between 30° and 90°.

8. (Currently Amended) A projector ~~for forming to form~~ an optical image by modulating a luminous flux emitted from a light source according to image information and ~~projecting to project~~ the enlarged image, ~~wherein~~ the projector comprising:

~~the light source unit~~projector according to ~~any one of~~ Claim 1 ~~is provided.~~

9. (Currently Amended) ~~A~~The ~~light source unit~~projector according to claim 8, ~~wherein~~ the lens positioning member ~~is-being~~ formed integrally with the lamp housing.

10. (Currently Amended) ~~A~~The ~~light source unit~~projector according to claim 8, ~~wherein~~ the collimator lens ~~is-being~~ fixed to the lens positioning member by thermal caulking.

11. (Currently Amended) ~~A~~The ~~light source unit~~projector according to claim 8, ~~wherein~~ the collimator lens ~~is-being~~ fixed to the positioning member with an adhesive agent.

12. (Currently Amended) ~~A~~The ~~light source unit~~projector according to claim 11, ~~wherein~~ the collimator lens ~~is-being~~ formed with a flange on ~~the~~an outer periphery thereof.

13. (Currently Amended) ~~A~~The ~~light source~~projector unit according to claim 11, ~~wherein~~ ~~the~~an entire peripheral surface of the collimator lens ~~is-being~~ adhered and fixed to the lens positioning member.

14. (Currently Amended) ~~A-The light source unit~~^{projector} according to claim 12, wherein the ~~an~~ angle of the ~~an~~ extremity of the flange formed around the outer periphery of the collimator lens is ~~being~~ an acute angle between 30° and 90°.

15. (Currently Amended) A method of manufacturing a light source unit comprising: ~~that includes~~ an arc tube having a light emitting section in which ~~section~~, electrodes and sealed sections provided on both sides of the light emitting section, discharging emission is ~~being~~ performed between ~~the~~ electrodes and sealed sections provided on both sides of the light emitting section;

an ~~oval~~ elliptic reflector having a reflecting surface of a substantially ~~oval~~ elliptical shape ~~for emitting to emit~~ a luminous flux radiated from the arc tube in a certain direction;

a collimator lens ~~for parallelizing to make parallel~~ convergent rays ~~light~~ from the oval reflector;

a lamp housing ~~for setting to set~~ the direction of an optical axis of the ~~oval~~ elliptic reflector, and a lens positioning member provided in the lamp housing for fixedly accommodating the collimator lens, comprising the steps of: the method comprising:

fixing the ~~oval~~ elliptic reflector positioned with respect to the arc tube to the arc tube so that most part of light radiated from the arc tube is emitted from the ~~oval~~ elliptic reflector as convergent rays ~~light~~ converging toward a second focal point of the ~~oval~~ elliptic reflector;

fixing the lamp housing fixed to the arc tube to the lamp housing;

fitting the collimator lens to the lens positioning member;

adjusting ~~the-a~~ position of the collimator lens with respect to the lens positioning member ~~so that to achieve~~ optimal distribution of an illumination intensity of the

luminous flux, which is emitted from the arc tube, reflected by the ~~oval~~elliptic reflector and parallelized by the collimator ~~lens~~, ~~is achieved; lens~~; and

fixing the collimator lens which is positioned with respect to the lens positioning ~~member~~member, to the lens positioning member.

16. (Currently Amended) AThe method of manufacturing a light source unit according to claim 15, whereinfurther including:

forming the collimator lens ~~is formed~~ with ~~the~~a flange on ~~the~~an outer periphery thereof;

the step of fitting the collimator lens into the lens positioning member ~~is performed by~~including: allowing ~~grip~~means ~~a~~ gripping device to grip the flange formed on the outer periphery of the collimator ~~lens~~, lens; mounting the collimator lens to the ~~grip~~means, gripping device; and fitting the collimator lens to the lens positioning member in a state in which the collimator lens is mounted to the ~~grip~~means, gripping device;

the step of positioning adjusting a position of the collimator lens with respect to the lens positioning member ~~is performed by~~including moving the ~~grip~~means, gripping device; and

the step of fixing the collimator lens to the positioning member ~~is performed by~~including: adhering the outer peripheral portion of the collimator lens which is not gripped by the ~~grip~~means gripping device to the lens positioning member with ~~the~~an adhesive agent; removing the ~~grip~~means gripping device from the collimator lens; adhering the outer peripheral portion of the collimator lens at ~~the~~ positions between the outer peripheral portion of the collimator lens and the lens positioning member on which the adhesive agent is not applied and the lens positioning member with the adhesive agent; and adhering and fixing ~~the~~an entire surface of the outer peripheral portion of the collimator lens to the lens positioning member.

17. (Currently Amended) ~~A-The~~ method of manufacturing a light source unit according to claim 15, ~~wherein positioning of the adjusting a position of the collimator lens with respect to the lens positioning member is-being performed in the-a direction perpendicular to the-a direction of the-an optical axis of the collimator lens.~~

18. (Currently Amended) ~~A-The~~ method of manufacturing a light source unit according to claim 15, ~~positioning the adjusting a portion of the collimator lens with respect to the lens positioning member is-being performed in the-a direction perpendicular to the-a direction of the optical axis of the collimator lens and in the direction of the optical axis.~~

19. (Currently Amended) A projector ~~for forming to form~~ an optical image by modulating a luminous flux emitted from a light source according to image information and projecting the enlarged image, ~~wherein comprising:~~

~~a light source unit manufactured by a method of manufacturing the light source unit according to claim 15 is provided claim 15.~~

20-22. (Canceled)

23. (New) A projector to form an optical image by modulating a luminous flux emitted from a light source according to image information and projecting the enlarged image, comprising:

~~a light source unit manufactured by a method of manufacturing the light source unit according to claim 16.~~

24. (New) A projector to form an optical image by modulating a luminous flux emitted from a light source according to image information and projecting the enlarged image, comprising:

~~a light source unit manufactured by a method of manufacturing the light source unit according to claim 17.~~

25. (New) A projector to form an optical image by modulating a luminous flux emitted from a light source according to image information and projecting the enlarged image, comprising:

a light source unit manufactured by a method of manufacturing the light source unit according to claim 18.